

Calculus

Dynamic Mathematics

Volume 1

Third Edition

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Garner

RMMT

Chuck Garner

Calculus: Dynamic Mathematics, Volume 1, is the first volume of a two-year calculus sequence intended for high school students. This volume includes every topic found in the AP Calculus AB curriculum and some found in the BC curriculum, such as improper integrals, logistic growth, Euler's method, arc length, integration by parts, and integration by partial fractions. Additional topics include the calculus of hyperbolic functions, surface areas of solids of revolution, and trigonometric substitution in integrals.

Chuck Garner holds a Ph.D. in mathematics and has been a teacher since 1994. Since 2001, he teaches mathematics at the Rockdale Magnet School for Science and Technology and he sponsors the school's award-winning Math Team. He is a member of the American Mathematical Society, the Canadian Society for the History and Philosophy of Mathematics, the TeX Users Group, the Mathematical Association of America, the Georgia Council of Teachers of Mathematics, and the Georgia Association of AP Math Teachers. He has served on the MAA Board of Governors and the Georgia Department of Education's Math Advisory Council, as well as Vice-President and as Treasurer of GCTM, as Secretary-Treasurer of GAAPMT, and as the MAA representative to the Mu Alpha Theta Governing Council. He has received GCTM's Award for Excellence in Mathematics Teaching, the Dwight Love Award for Distinguished Contributions to Mathematics Education, the MIT Inspirational Teacher Award, the Stanford University Teacher Award, the Yale University Educator Award, GAAPMT's John Neff Award for Outstanding Contributions to AP Mathematics, and the Gladys M. Thomason Award for Lifetime Achievement in Mathematics Education.

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